





Preliminary Datasheet

CertaDrive Linear Isolated LED Drivers Single Current

CertaDrive 38W 0.9A 42V 230V I G2 9290 021 40780

Independent

Single current LED drivers for essential lighting applications.

CertaDrive LED drivers are designed to fulfill the market need for essential lighting with reliable performance. The CertaDrive LED drivers offer basic specifications with specific current and voltage settings which are easy to use for high volume applications. The CertaDrive range is optimal to operate mid-power LEDs from different manufacturers.

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220240	V _{ac}	Performance range
Rated input voltage	230	V _{ac}	
Rated input frequency range	5060	Hz	Performance range
Rated input current	0.2	A	@ rated output power @ rated input voltage
Rated input power	43	w	@ rated output power @ rated input voltage
Power factor	0.9		@ rated output power @ rated input voltage
Total harmonic distortion	20	%	@ rated output power @ rated input voltage
Efficiency	87.7	%	@ rated output power @ rated input voltage
Input voltage AC range	202254	V _{ac}	Operational range
Input frequency AC range	47.563	Hz	Operational range
Isolation input to output	SELV		
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Electrical output data			

Electrical output data

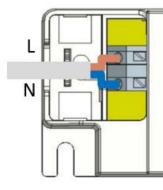
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	3042	V _{dc}	
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	0.9	A	
Output current tolerance	± 8	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output current ripple HF	≤ 15	%	
Output power	2737.8	W	

Electrical data controls input

ntrol method		

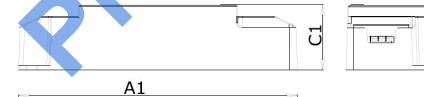
Wiring and Connections

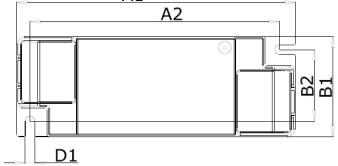
Specification item	Value	Unit	Condition
Input wire cross-section	0.751.5	mm ²	Type250 (Independent), solid / stranded wire
	1618	AWG	Type250 (Independent), solid / stranded wire
Input wire strip length	89	mm	
Output wire cross-section	0.51.5	mm ²	Type250, solid / stranded wire
	1620	AWG	Type250, solid / stranded wire
Output wire strip length	89	mm	
Maximum cable length	600	mm	Total length of wiring including LED module, one way



Dimensions and weight

Specification item	Value	Unit	Condition
Length (A1)	125	mm	
Width (B1)	45	mm	
Width (B2)	31.9	mm	
Height (C1)	29	mm	
Fixing hole diameter (D1)	4.3	mm	
Fixing hole distance (A2)	111.9	mm	
Weight	114	gram	







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Logistical data

Specification item	Value
Product name	CertaDrive 38W 0.9A 42V 230V I G2
Logistic code 12NC	9290 021 40780
Pieces per box	70

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20+40	°C	Higher ambient temperature allowed as long as Tcase-max is no
			exceeded
Tcase-max	75	°C	Maximum temperature measured at T _{case} -point
Tcase-life	65	°C	Measured at T _{case} -point
Maximum housing temperature	130	°C	In case of a failure, inherent by design
Relative humidity	1090	%	Non-condensing
Lifetime			
Specification item	Value	Unit	Condition
Driver lifetime	30,000	hours	Measured temperature at Tcase-point is Tcase-life. Maximum
			failures = 10%
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Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25+85	°C	
Relative humidity	595	%	Non-condensing

Programmable features

Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	No	900 mA	
LED Module Temperature Protection (MTP)	No		
Constant Lumen Over Lifetime (CLO)	No		
DC emergency dimming (DCemDim)	No		

Features

Specification item	Value	Remark	Condition
Open load protection	Yes		Automatic recovering
Short circuit protection	Yes		Automatic recovering
Over power protection	Yes		
Hot wiring	No		
Suitable for fixtures with protection class	Ш		per IEC60598

Inrush current

Specification item	Value	Unit	Condition
Inrush current I _{peak}	7.66	A	Input voltage 230V
Inrush current T _{width}	55	μs	Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 54	pcs	Indicative value

	МСВ	Rating	Relative number of LED drivers
	В	4A	25%
	В	6A	40%
lpeak	В	10A	63%
Twidth	В	13A	81%
	В	16A	100% (stated in datasheet)
	В	20A	125%
	В	25A	156%
	В	32A	200%
	В	40A	250%
	c	4A	42%
	с	6A	63%
	С	10A	104%
	С	13A	135%
	С	16A	170%
	С	20A	208%
	С	25A	260%
	С	32A	340%
	С	40A	415%
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Driver touch current / protective conductor current

Specification item	Value	Unit	Condition
Typical Touch Current (ins. Class II)	0.7	mA peak	Acc. IEC61347-1. LED module contribution not included

Surge immunity

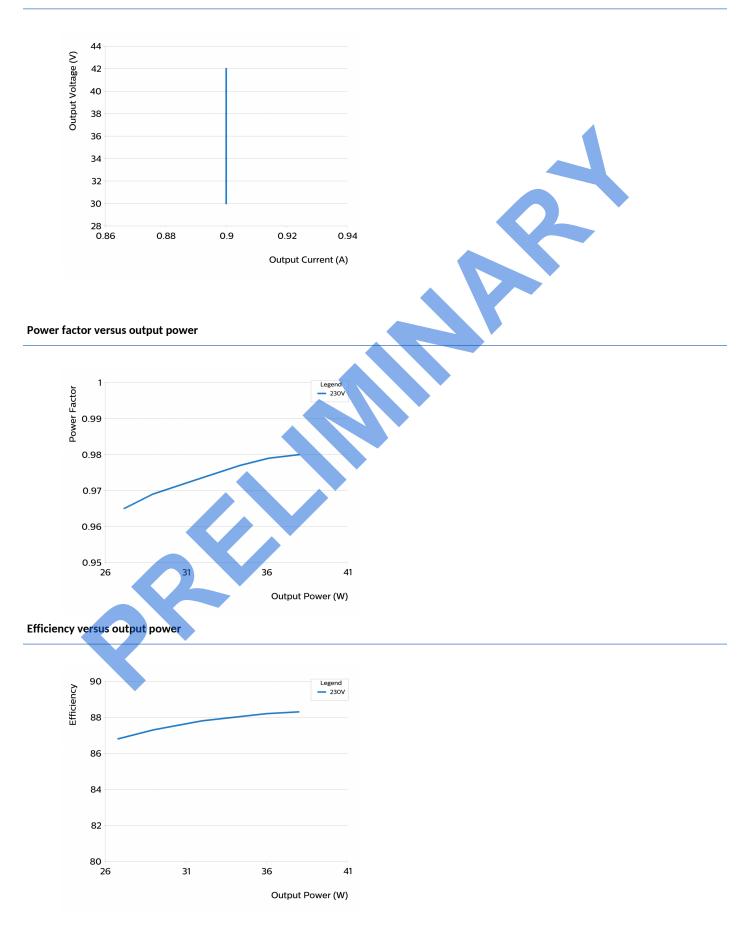
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm 1.2/50us,8/20us

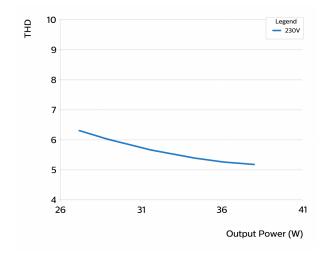
Application Info

Specification item	Value
Approval marks	C-tick / CB / CCC / CE / ENEC / F-mark / SELV / TISI
Ingress Protection classification (IP)	20

Graphs

Operating window





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